

Work Order ID 155593

Tuesday, January 17, 2017 11:28:29 AM

155593

Page 1

Item ID: D3295-041 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Replacement Interior Window for -111
Start Date: 1/11/2017 Start Qty: 4.00 ***4*** Cust Item ID:
Required Date: 1/17/2017 Req'd Qty: 4.00 ***4*** Customer:
Reference:

Approvals: Process Plan: DAS 21 Date: JAN 19 2017 Tooling: _____ Date: _____ Run Start ***NR1***
QC: 9-89 Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
100	FLOW WATER JET	0.00							
100									
Waterjet	Memo	0.05							
FLOW CNC Waterjet	***ENSURE PLASTIC BLOCK ARE ON TABLE BEFORE CUTTING PARTS***								
	1-Cut D3295-1 as per Dwg D3295								
	Dwg Rev: <u>E</u>								
	Prog Rev: <u>E</u>								
	2-Remove plastic, clean and wrap in saran wrap.								
	3-Deburr if necessary								
110	QC2- Inspect parts off machine FAI/FAIB	0.00							
110									
QC	Memo	0.01							
Quality Control									

DAS
46
9-89

17/01/26

41

DAS
46
9-89

17/01/26

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
		OTHER : _____							

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Item ID: D3295-041

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Replacement Interior Window for -111

Start Date: 1/11/2017 Start Qty: 4.00

4

Cust Item ID:

Required Date: 1/17/2017 Req'd Qty: 4.00

4

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start

NR1

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC8- Inspect parts - second check	0.00							
120 QC Quality Control	Memo	0.01				4			DAS 38 JAN 26 2017
130	Small Fab	0.00							
130 Small Fab Small Fab	Memo Assemble as per Dwg D3295. Put window in plastic wrap.	0.12				2x	2		17/02/06 DAS 36 9-8
140	QC5- Inspect part completeness to step on W/O	0.00							
140 QC Quality Control	Memo	0.01				2			DAS 38 FEB 06 2017 P.T.O.

DQA:

Date: 2017-02-22



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed:

Date: FEB 15 2017

Work Order update only

Work Order: 155593		DISPOSITION		AGAINST DEPARTMENT/PROCESS					
Part No. 3295-041		Rework ☐		Skid-tube ☐	Cross tube ☒	Water Jet ☐	Engineering ☐		
NCR No. 176289		Scrap ☒		Machining ☐	Small Fab ☒	Prod. Eng. Coord. ☐	Quality ☐		
		Use-as-is ☐		Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐		
		Suspected Unapproved ☐		Large Fab ☐	Composite ☐	Supplier ☐			
Date: 17/02/06		Step #: 100		QTY Effective: 2			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition			DAS 9 9-89 17-02-06 Completed By DAS 36 9-89 17-02-06 Lead hand / Supervisor Approval Verification DAS 30 9-89 17-02-06 QC / QA Coordinator Approval DAS 38 9-89 FEB 06 2017		
Found 2 windows D3295-041 Damaged. Was scratch & material Defect RC. Handling				Scrap & Destroy.					
Root Cause				FAULT CATEGORY					
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	☒ Broken/Damage/Defect	Weld ☐	Part Incorrect ☐				
Handling/Pre ☒	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☒	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	☒ Marks/Chatter	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER :							

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N900040100

Setup Start *NS1*

Stop ***NS2***

4

Cust Item ID:

4

Customer:

Reference:

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

**Insp.
Stamp**

Identify as per dwg & Stock Location: 57436

0.00

150

0.01

Packaging

Memo

Packaging

2 DAS
6
9-89

FEB 07 2017

QC21- Final Inspection - Work Order Release

0.00

160

0.07

QC

Memo

Quality Control

17/2/8 JF



FEB 07 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐		
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐		
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐		
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐		
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐		
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐		
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐		
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐		
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐		
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐		
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____					
Misidentified ☐	Past Due ☐						

Picklist Print

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Page 1

Work Order ID: 155593

155593

Parent Item: D3295-041

D3295-041

Parent Item Name: Replacement Interior Window for -111

Start Date: 1/11/2017

Required Date: 1/17/2017

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP C05.06.20D3295-1 no longer made in-houseKJ/JLM
IPP Rev:D Added DT8822 07-03-20 JLM
IPP Rev:E Returned Manufacturing In House 07-06-26 JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2728-1		Manufactured	Yes			140	Each	-1.0000	1	4			DAS 36 9-89
D2728-1									**			17/02/06	
Dart Logo Label Small													
MLEXS.125-9034-01		Purchased	No			100	sf	69.4200	1.24	5.221053			DAS 46 9-89
MI FXS 125-9034-01									**			17/01/26	
1/8" 9034 Lexan Sheet (Clear)													

Location	Loc Qty	Loc Code
MAT019	37.42	
m135241	37.42	
therm	32	
m135485	32	

S.9

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
				Completed By _____					
				Lead hand / Supervisor Approval Verification _____					
				QC / QA Coordinator Approval _____					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

DART AEROSPACE LTD		Work Order: 155593
Description: Window		Part Number: D3295
Inspection Dwg: D3295	Rev: E	Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø0.156	+0.005/-0.001	0.158	✓		DC-01	
17.13	+/-0.030	17.13	✓		tape	
10.43	+/-0.030	10.43	✓			
14.35	+/-0.030	14.35	✓			
8.98	+/-0.030	8.98	✓			
0.625	+/-0.010	0.623	✓			
7.109	+/-0.010	7.109	✓			
15.845	+/-0.010	15.845	✓			
2.308	+/-0.010	2.308	✓			
5.420	+/-0.010	5.420	✓			
9.402	+/-0.010	9.402	✓			
1.312	+/-0.010	1.315	✓			
6.260	+/-0.010	6.264	✓			
12.520	+/-0.010	12.520	✓			
0.313	+/-0.010	0.317	✓			
3.750	+/-0.010	3.750	✓			
8.150	+/-0.010	8.150	✓			
9.006	+/-0.010	9.010	✓			
0.125	+/-0.010	0.126	✓			

Measured by: DAS 46 9-89	Audited by: DAS 38 9-89	Preliminary Approval:
Date: 17/01/20	Date: JAN 26 2017	Date:

Rev	Date	Change	Revised by	Approved
A	07.11.23	New Issue P/O D3295-041	KJ/EC/DD	
B	13.02.27	Dwg Rev updated	KJ	

ITEM	QTY -041	QTY -041B	P/N	DESCRIPTION
	X		D3295-041	FLOOR WINDOW
		X	D3295-041B	FLOOR WINDOW, BLANK
1	1		D3295-1	WINDOW
2		1	D3295-1B	WINDOW, BLANK
3	1	1	D2728-1	DECAL

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 155593 MJS
17-01-19

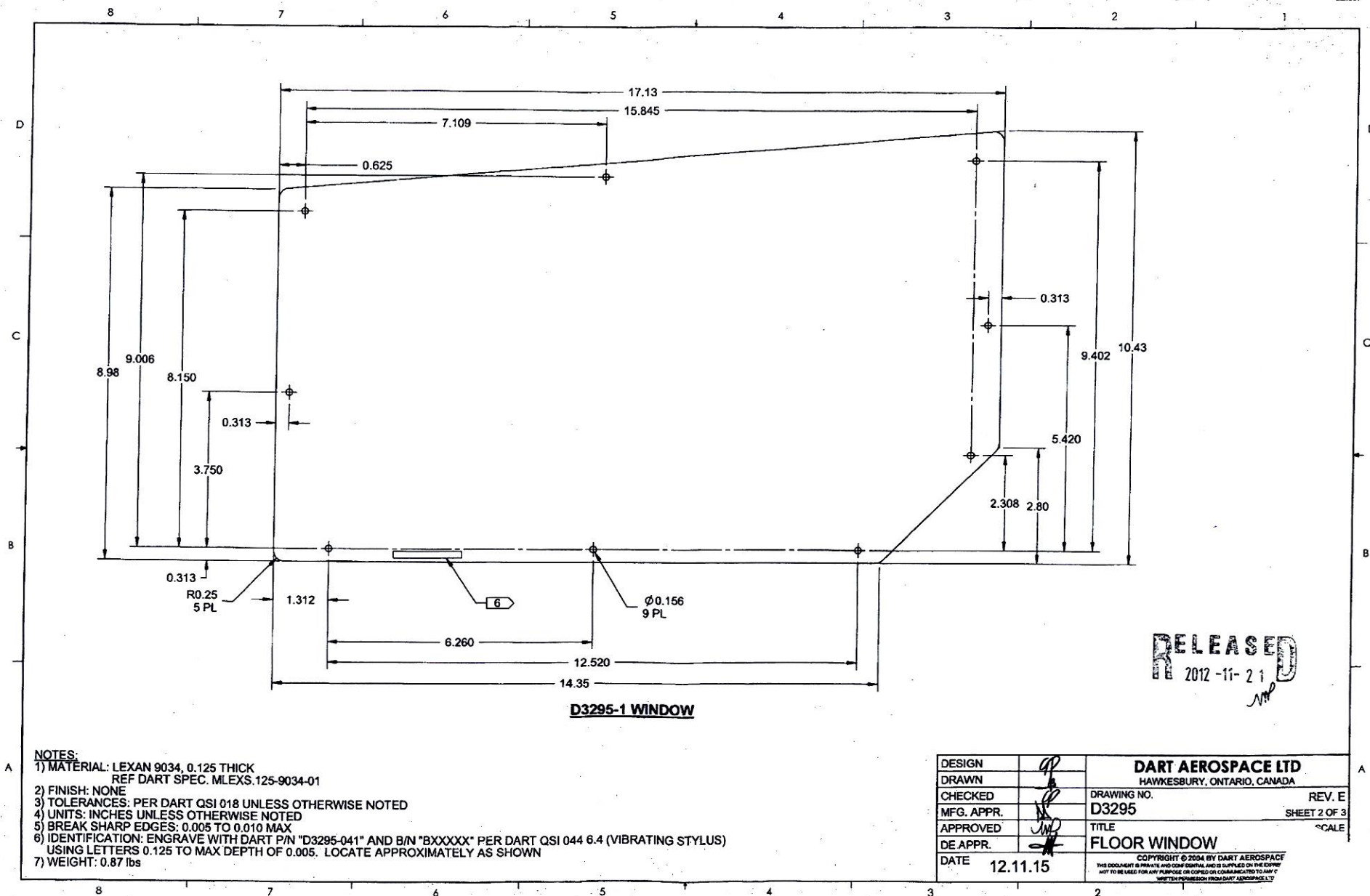
RELEASED
2012-11-21
MJS

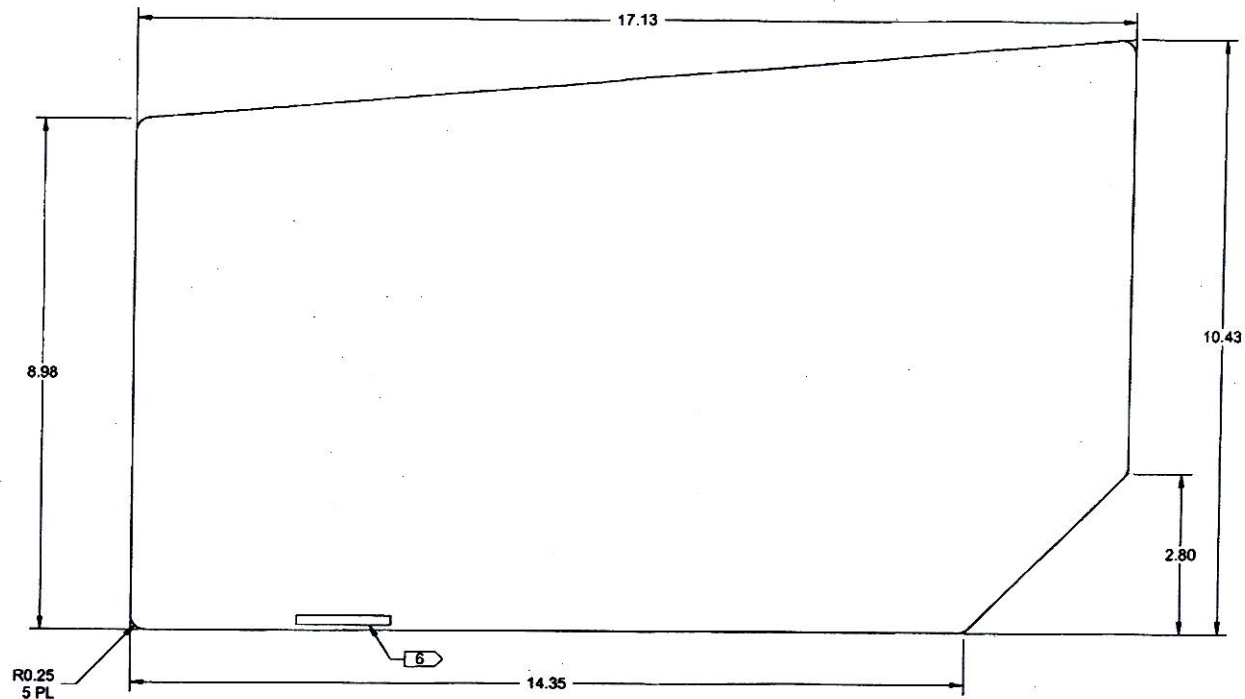
D3295-041 FLOOR WINDOW

E D3295-041B FLOOR WINDOW, BLANK

- NOTES:
- 1) MATERIAL: N/A
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) N/A
 - 6) ENSURE SURFACE IS FREE OF DIRT/GREASE PRIOR TO APPLICATION OF SELF-ADHESIVE DECAL
 - 7) WEIGHT: D3295-041/-041B = 0.87 lbs

E	ADD D3295-041B/-1B. REF. PAR12-223.	MB	12.11.15
D	REVISE MATERIAL TO LEXAN 9034 FROM POLYCAST ACRYLIC SHEET. ZONE A3 SH 2 ADD MISSING DIMENSION PER NCR 247. ZONE C3 SH 2 REFORMAT DRAWING	MP	07.11.07
C	CHANGE TEMPLATE # TO DT6822	SSH	07.02.21
B	UPDATE MATERIAL PER NCR 029	CP	06.04.13
A	NEW ISSUE	CP	04.06.28
REV.	DESCRIPTION	BY	DATE
DESIGN	97		
DRAWN	97		
CHECKED	97		
MFG. APPR.	97		
APPROVED	97		
DE APPR.	97		
DATE	12.11.15		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. D3295 REV. E SHEET 1 OF 3 TITLE FLOOR WINDOW SCALE NTS COPYRIGHT © 2004 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			





D3295-1B WINDOW

RELEASED
2012-11-21
JMP

NOTES:

- 1) MATERIAL: LEXAN 9034, 0.125 THICK
REF DART SPEC. MLEXS.125-9034-01
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: ENGRAVE WITH DART P/N "D3295-041B" AND B/N "BXXXXX" PER DART QSI 044 6.4 (VIBRATING STYLUS)
USING LETTERS 0.125 TO MAX DEPTH OF 0.005. LOCATE APPROXIMATELY AS SHOWN.
- 7) WEIGHT: 0.87 lbs

DESIGN	DP	DART AEROSPACE LTD	
DRAWN	DP	HAWKESBURY, ONTARIO, CANADA	
CHECKED	DP	DRAWING NO.	REV. E
MFG. APPR.	DP	D3295	SHEET 3 OF 3
APPROVED	JMP	TITLE	SCALE
DE APPR.	JMP	FLOOR WINDOW	NTS
DATE	12.11.15	COPYRIGHT © 2004 BY DART AEROSPACE LTD	
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